## In the claims:

- 1.-10. (cancelled).
- 11. (currently amended) A process for producing single-crystal structures from metallic superalloys, comprising:

providing a substrate with a single-crystal structure from a epitaxial growth of a layer material via a first material application process, the substrate comprising at least one undesirable crystal orientation;

applying an intermediate layer where no single-crystal or directional structure occurs on the substrate; and

epitaxially growing the <u>a single crystal buildup</u> layer material on the intermediate layer, the single crystal buildup layer being isolated from the at least one undesirable crystal orientation of the substrate by the intermediate layer;

wherein the intermediate layer is applied with a non-directional microstructure.

- 12. (previously presented) The process as claimed in claim 11, wherein the structure is a component, a workpiece, a blade, or a vane.
- 13. (previously presented) The process as claimed in claim 11, wherein the substrate has a plurality of single-crystal structures from the epitaxial growth of the layer material.
- 14. (previously presented) The process as claimed in claim 11, wherein a heat treatment transforms at least part of the intermediate layer with the substrate into a region having a crystalline structure.
- 15. (previously presented) The process as claimed in claim 11, wherein a heat treatment transforms at least part of the intermediate layer with the layer material into a region having a crystalline structure.
- 16. (previously presented) The process as claimed in claim 11, wherein the intermediate layer is generated electrochemically.

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17. (cancelled).

18. (previously presented) The process as claimed in claim 11, wherein the intermediate layer is applied with a directional microstructure.

- 19. (previously presented) The process as claimed in claim 11, wherein the intermediate layer is applied via a second material application process.
- 20. (previously presented) The process as claimed in claim 11, wherein a composition ratio of constituents for the intermediate layer is adapted to a main composition ratio of main constituents of the substrate.
- 21. (previously presented) The process as claimed in claim 11, wherein a material composition of the intermediate layer at least approximately corresponds to the material composition of the substrate.
  - 22. (currently amended) A component formed from a metallic superalloy, comprising: a substrate having at least partially single-crystal structures;

an intermediate layer having no single-crystal or directional structure <u>bonded-applied</u> to the substrate; and

a third layer material with a single-crystal structure formed on the intermediate layer.

- 23. (previously presented) The component as claimed in claim 22, wherein a composition of the layer material at least approximately corresponds to a material composition of the substrate.
- 24. (previously presented) The component as claimed in claim 22, wherein the intermediate layer is generated electrochemically.

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25. (previously presented) A process for producing metallic single crystal structures from metallic super alloys, comprising:

providing a substrate with a single crystal structure; and depositing a single crystal material overlayer made by epitaxial growth of a layer applied by a first material application process;

characterized in that:

an intermediate layer is applied to the substrate prior to the deposition of the overlayer, wherein no single crystal or directionally grown structure is present in the intermediate layer; and wherein the intermediate layer is applied by a second material application process different than the first material application process;

wherein the overlayer is epitaxially grown on the intermediate layer.

26. (previously presented) The process of claim 25, wherein the second material application process comprises an electro-deposition process.